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MCE MedChemExpress

1 kb DNA Marker

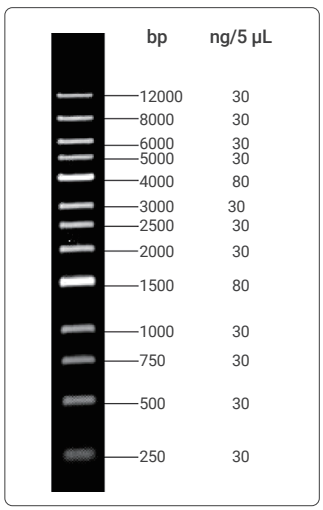
1 Contents

Components	HY-K0805-250 μL	HY-K0805-500 μL	HY-K0805-1 mL
1 kb DNA Marker	250 μL	250 μL × 2	250 μL × 4

2 Introduction

The 1 kb DNA Marker is provided in a solution of 1× DNA Loading Buffer, which can be directly used for nucleic acid electrophoresis analysis. The Marker contains 13 double-stranded DNA fragments ranging from 250 bp to 12000 bp. 5 μL of this product contains about 80 ng for the 1500 bp and 4000 bp bands, and about 30 ng for the other bands.

3 Electrophoresis illustration



0.7% Agarose 1x TAE Buffer
5 μL/lane 7 V/cm, 45 min

4 Protocol

1. Add 5 μL of 1 kb DNA Marker to sample well of the agarose gel and perform electrophoresis.
2. After electrophoresis, stain with Nucleic Acid Gel Stain and detect the electrophoresis results.

Note: a) 0.7-1.0% agarose gel at 5-10 V/cm and 1× TAE Powder are recommended.

b) Adjust the loading volume of DNA Marker for different loading well format.

c) Pre-dyeing or post-dyeing is suitable when using the Nucleic Acid Gel Stain.

5 Storage

-20°C, 2 years.

Avoid repetitive freeze-thaw cycles.

6 Precautions

1. For short-term use, DNA Marker may be stored at 2-8°C.
2. Replace the electrophoresis buffer in time and use fresh agarose gels to achieve better electrophoretic results.
3. When the concentration of agarose gel is too high (no more than 1.0 %), the bands will not be easy to separate. TBE Powder is not recommended
4. This product is for R&D use only, not for drug, household, or other uses.
5. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

7 Recommended products used for Nucleic Acid Gel Electrophoresis

Cat. No	Name	Application
HY-K1031	Agarose	Agarose gel
HY-K1029	Agarose With TAE Powder (1%)	
HY-K1016	TBE Powder (1 L of 1×)	
HY-K1015	TAE Powder (1 L of 1×)	Electrophoresis buffer
HY-K1017	Rapid Running Buffer Powder (1 L of 1×)	
HY-K1004	SYBR Green I Nucleic Acid Gel Stain	Nucleic Acid Gel Stain
HY-K1007	Red Nucleic Acid Gel Stain (10,000×)	